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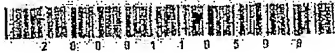
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(54) **RADIO TELEPHONE**

Utility Model Claim

1. Radio telephone, containing a transceiver unit, an electronic circuit with controls, a dialer, a microphone and a telephone with a microdynamic speaker, *characterized* in that it also has a loudspeaker system with voice dialing, including a processor unit with control unit, a reprogrammable memory device linked to the radio telephone dialer and connected to the output of a reprogrammable address device, to the input of which is connected an encoder linked to the microphone, a loudspeaker system memory unit with its output connected to a decoder linked to a synthesizer, to which is connected a dynamic speaker, the processor unit having the reprogrammable address device and the loudspeaker system memory unit connected to it.

2. Radio telephone in accordance with claim 1, *characterized* in that the loudspeaker system with voice dialing also contains a message recording unit linked to the processor, with its input connected to the encoder, and its output to the decoder.

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RADIO TELEPHONE

The utility model relates to mobile communications.

From the Prior Art, there are known radio telephones characterized by various component configurations, including a transceiver unit, an electronic circuit with controls, a dialer, a microphone and a telephone (microdynamic speaker) (see RU 2085049A, H04M 1/02, 1997; RU 2138133A, H04Q 7/32, 1999; US 4845772A, H04M 1/02, 1988; GB 2302232A, H04M 1/02, 1997; WO 99/34575A1, H04M 1/02, 1999).

The main problem with the known radio telephones is the inconvenience of using them in a motor vehicle, since calls to a subscriber by phone number dialing and replies to telephone calls are made by the user manually, distracting him from driving the vehicle.

The utility model is intended to make it more convenient to use the radio telephone and to make it safer to drive a motor vehicle fitted with a radio telephone.

The solution to this problem is provided by the radio telephone in accordance with the utility model, which in addition to a transceiver unit, electronic circuit with controls, dialer, microphone and telephone (microdynamic speaker), also has a loudspeaker system with voice dialing. This system includes a processor unit with control unit, and a reprogrammable memory device linked to the radio telephone dialer and connected to the output of a reprogrammable address device, to the input of which is connected an encoder linked to the microphone, a memory unit of the loudspeaker system with output connected to the decoder which is also linked to a synthesizer, to which a dynamic speaker is connected. The reprogrammable memory device, reprogrammable address device and loudspeaker system memory unit are connected to the processor unit.

Furthermore, the loudspeaker system contains a message recording unit linked to the processor, with input connected to the encoder and output connected to the decoder.

The presence of a loudspeaker system with voice dialing virtually eliminates the need for manual manipulation of the radio telephone, which greatly simplifies the process of transmitting and receiving information, and accordingly, makes it safer to drive a motor vehicle with the described mobile communication device installed in it.

The drawing is a block diagram of the radio telephone with loudspeaker system and voice dialing.

The utility model applied for contains radio telephone (RT) 1, which includes transceiver unit (TU) 2, electronic circuit with controls (ECC) 3, dialer (NS) 4, microphone (5), microdynamic loudspeaker telephone 6 and loudspeaker system with voice dialing (LS with VNS) 7, including processor unit (PU) 8 with control unit (CU) 9 in the form of a smart keyboard, reprogrammable memory device (RPMD) 10, which is connected to dialer 4 of radio telephone 1, and also connected to output of reprogrammable address device (RPAD) 11, to the input of which is connected encoder (EC) 12 linked to microphone 5, and memory unit of loudspeaker system (MULSS) 13, with output connected to decoder (DC) 14 linked to synthesizer (S) 15, to which external dynamic loudspeaker 16 is connected. The processor unit 8 has connected to it reprogrammable memory device 10, reprogrammable address device 11 and loudspeaker system memory unit 13. Furthermore, loudspeaker system with voice dialing 7 contains message recording unit (MRU) 17 connected to processor unit 8 and also connected at output to encoder 12 and at input to decoder 14.

Radio telephone 1 with loudspeaker system with voice dialing 7 operates as follows.

To use the voice dialing function, the telephone numbers are entered into reprogrammable memory device (10) (phone book) using dialer 4 of radio telephone 1. Then, by manipulating control unit 9 (a smart keyboard), loudspeaker system with voice dialing 7 is switched to automatic recording of the "names" associated with the corresponding phone book numbers. When the "name" is then pronounced into microphone 5, encoder 12 converts the voice signal coming to it into a specific code, which is memorized by reprogrammable address device 11. In this process, processor unit 8 synchronizes the operation of loudspeaker system memory unit 13,

into which encoded information is entered - prompt messages in different languages, including Russian, which enables decoder 14 and synthesizer 15 synchronously to reproduce (pronounce) the appropriate phone number from the phone book by means of external dynamic loudspeaker 16. After recording of all the "names", radio telephone 1 is in standby mode, from which a call to a subscriber can be made by manipulating smart keyboard control unit 9. To do this, the required "name" is pronounced, and the signal, converted in encoder 12, goes to reprogrammable address device 11, from the memory of which the address signal goes to the memory of reprogrammable memory device 10. Reprogrammable memory device 10 produces the appropriate command signal, which goes to processor unit 8 and dialer 4. At this time, loudspeaker system 7 with voice dialing will repeat the "name" in question and will dial the corresponding phone number by means of dialer 4. By manipulating smart keyboard control unit 9 in a certain order, it is possible to receive an incoming call and to add, delete or amend entries in the phone book, i.e. reprogrammable memory device 10.

Message recording unit 17 also acts as a record book. To do this smart keyboard control unit 9 is manipulated to switch processor unit 8 to recording mode, in which the signal converted by encoder 12 goes to the message recording unit. Listening to the recording, decoder 14 and synthesizer 15 reproduce in sound form the information entered into the memory of message recording unit 17.

RADIO TELEPHONE

